Q 1 Aldehydes can be oxidized by_____?

A $K_2Cr_2O_7$

B HNO_3

C Tollen's reagent

D All of these

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Q 2 _____cathode is used in discharge tube experiment for discovery of protons

A flat

B round

C perforated

D oval

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Q 3 Which alkali metal only combine with Nitrogen?

A Li

B Fr

C Cs

D K

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Q 4 Geometrical isomerism arises due to_____?

A Rotation around a double bond

B Restriction of rotation around a single bond

C Restriction of rotation around a double bond

D Due to double bond

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Q 5 Joule-Thomson effect is used to _the temperature of a gas to liquefy it

A raise

B higher

C equalize

D lower

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Q 6 In Powdered form the angles and faces in a crystal are

Download wi

A Ruptured

B Changed

C Unchanged

D None of these

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Q 7 The biochemical process used in the synthesis of alcohol in the presence of yeast is called as_____?

A Respiration

B Photosynthesis

C Fermentation

D Aerobic respiration

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Q 8 Reagent like $K_2Cr_2O_7$ and H_2SO_4 lead to_____?

A Reduction

B Hydrolysis

C Dehydration

D Oxidation

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Q 9 The negative ions having group of atoms is/are

A OH-

B CO_3^{2-}

C $Cr_2O_7^{2-}$

D all of these

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Q 10 Which of the following forces are strongest?

A Debye forces

B Dipole Dipole forces

C Induced dipole forces

D Metallic bond

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Q 11 Which one of the following is an electrophile?

A Br^+

B CH_4

C NH_3

D H_2O

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Q 12 Benzophenone is also known as :

A Diphenyl ketone

B Ethyl Phenyl ketone

C Tri Phenyl ketone

D None of these

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Q 13 In the addition of sodium bisulfite to carbonyl system, which of the following is nucleophile?

A Sulphide ion

B Sulfite ion

C Hydride ion

D Sodium ion

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Q 14 The reaction in which benzene is reacted with alkyl or acyl halide in the presence of $AlCl_3$ is called as_____?

A Aldol condensation

B Wolf kishner reaction

C Wittig reaction

D Friedel and craft reaction

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Q 15 Alkyl halide react with Sodium lead alloy, which of the following is correct formula of tetramethyl lead?

A $(C_2H_5)_4Pb$

B $(CH_3)_4Pb$

C $(CH_4)_4Pb$

D $(CH_3)_4Pd$

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Q 16 Which of the following is an example of Tricarboxylic acids ?

A Maleic acid

B Citric acid

C Butyric acid

D None of these

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Q 17 In SN_2 reaction, rate of reaction is directly proportional to concentration of_____?

A Substrate only

B Nucleophile

C Substrate and nucleophile

D All of these

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Q 18 Which one of the following is not an example of state function?

A Temperature (T)

B Volume (V)

C Enthalpy (E)

D Heat (q)

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Q 19 If the concentration of reactants in a chemical reaction is Unity the rate is called

A Unit rate constant

B specific rate constant

C Relative rate constant

D Average rate constant

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Q 20 Which of the following process is an example of exothermic reaction?

A Evaporation

B Fusion

C Sublimation

D Respiration

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Q 22 In Which of the following reaction rate of reaction is not affected by increasing concentration of nucleophile ?

A SN_2

B E_2

C SN_1

D None of these

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Q 23 in solid iodine, I-I bond distance is

A 77.1 pm

B 271.5 pm

C 11 pm

D 166.7 pm

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Q 24 In a galvanic cell ,Zinc Sulphate left beaker acquires a

A A negative charge

B A net positive charge

C Neutral

D None of these

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Q 25 Shifting the position of equilibrium can be used to Increase

A Temperature

B pressure

C yield of reaction

D All of these

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Q 26 Gasoline produced by the Fractional distillation is_____?

A 80%

B 5%

C 65%

D 20%

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Q 27 The strength of H-bond is less than covalent bond

A 1 times

B 2 times

C 3 times

D 5 times

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Q 28 How carboxylic acid group attached to benzene ring affect its reactivity?

A Make it reactive

B Makes ortho position of benzene more reactive than others

C Makes meta position of benzene more reactive than others

D Makes para position of benzene more reactive than others

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Q 29 In Haber's process volume percentage of ammonia in equilibrium mixture is

A 30%

B 32%

C 35%

D 33%

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Q 30 If two amino acids are joined by peptide bond than the molecule is called as_____?

A Polypeptide

B Peptide

C Dipeptide

D Tripeptide

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Q 31 Isotopes are the atoms of same element having different number of _____

A electron

B proton

C positron

D neutron only

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Q 32 In the rate equation R=k[A]^a [B]^b, order of reaction is

A a x b

B a-b

C b-a

D a+b

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Q 33 A substance formed by reduction of phenol with Zn is

A picric acid

B benzene

C cresol

D carbolic acid

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Q 34 Charles's law is not being obeyed when temperature is measured on Celsius scale. Thatâ€™s why new scale called_____ has been developed

A zero Fahrenheit

B zero Kelvin

C absolute Fahrenheit

D all of these

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Q 35 Avogadro's hypothesis is applicable to _____only.

A all gases

B inert gases

C ideal gases

D light gases

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Q 36 Which is un1 for phenols

A a colourless crystalline solid

B more reactive to electrophilic attack

C form pink solution at room temperature

D dissolves readily in acids

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Q 37 When we dissolve a compound of transition element in a solution of salt then it will form

A Simples ions

B Strong anions

C Double salts

D Complex ions

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Q 38 symmetry is repetition of ___ when a crystal rotates at 36 along its axis

A faces

B edges

C angles

D all of these

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Q 39 Which one of the following is a strong acid ?

A HF

B HI

C HBr

D HI

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Q 40 1,4-dimethyl benzene is called as_____?

A Ortho xylene

B Para-xylene

C Para-methyl toluene

D Meta-methyl toluene

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Q 41 which one the characteristic of Ionic solids ?

A high vapor pressure

B good conductivity

C low melting point

D solubility in polar solvents

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Q 42 Polyvinyl acetate is polymer of_____?

A Acetyl acetate

B Vinyl acetate

C Chloro acetate

D Benzyl acetate

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Q 43 this gas cannot be liquefied by Linde's method

A methane

B carbon dioxide

C hydrogen

D helium

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Q 44 Work done by the system is always

A Positive

B Zero

C Negative

D Equals to Unity

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Q 45 The number of molecules taking part in rate determining step of a reaction is called as_____?

A Order of reaction

B Molecularity

C Intermediate

D Substrates

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Q 46 One of them is not an alkali metal, Mark it

A Francium

B Caesium

C Rubidium

D Radium

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Q 47

Effect of Change in Pressure for a reaction with different number of moles at reactant and product side are

A Irreversible Reactions

B Reversible reactions

C Reversible gaseous reactions

D All of these

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Q 48 When atoms share their electrons to complete its valence shell and attains nearest noble gas configuration, the bond formed is

A Ionic bond

B covalent bond

C metallic bond

D dative bond

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Q 49 Enzymes speed up the reaction upto:

A 10^{1o}

B 20^{1o}

C 10^{2o}

D 15^{1o}

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Q 50 which one of them belongs to tetragonal system

A Bi

B Sn

C Fe

D Zn

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Q 51 In exothermic reactions forward reactions need

A More Energy

B No energy

C Less Energy

D Catalyst

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Q 52

Glucose($C_6H_{12}O_6$) is the most important nutrient in a cell for generating chemical potential energy, what is the mass percent of carbon in 1.5g of sample

A 33%

B 40%

C 53.3%

D 6.67%

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Q 55 The least value of Van der Waals constant is of

A H_2

B N_2

C CO_2

D Cl

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Q 56 d-block elements are called

A coinage metals

B noble metals

C transition metals

D alkali metals

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Q 57 In bacteria name the colour of light which is responsible for photosynthesis?

A Ultra-Violet

B Blue

C Red

D None of the above

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Q 58 Cellular respiration is essentially what type of process?

A Oxidation

B Reduction

C Redox

D None of the above

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Q 59 The affect of genetic drift increases as the population size?

A increases

B decreased

C remains same

D none of these

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Q 60 Developing seeds are rich source of which of the following?

A auxins

B gibberellins

C cytokinins

D all of these

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Q 61 Which of the following is the most complex sugar?

A Monosaccharides

B Oligosaccharides

C Polysaccharides

D carbohydrates

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Q 62 Cartilage is a form of:

A Cardiac tissue

B connective tissue

C epithelial tissue

D nervous tissue

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Q 63 What does the size of viruses' range between?

A 100 mm to 150 mm

B 20 nm to 250 nm

C 300 nm to 3000 nm

D 3 nm to 30 nm

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Q 64 Who opposed the idea the cell is an empty space bounded by thick wall?

A Lorenz oken

B Schwann

C Robert brown

D Rudolph Virchow

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Q 65 What is the strengthening material of the prokaryotic cell wall?

A cellulose

B chitin

C silica waxes and lignin

D peptidoglycan or murein

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Q 66 The process of determining the locus for particular biological traits includes?

A replication

B recombination

C gene mapping

D none of these

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Q 67 Pseudocoelom develops from which of the following?

A Blastopore

B Plastoquinone

C Splitting of mesoderm

D Blastocoel

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Q 69 How many postulates does the germ theory of disease have?

A 2

B 3

C 4

D 5

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Q 70 Larynx is also called:

A glottis

B voice box

C epiglottis

D both B and C

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Q 71 The complete, mature and infectious particle is known as?

A Capsid

B Virion

C Bacteriophage

D Nucleus

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Q 72 What is critical in photoperiodism?

A Length of light period

B Length of dark period

C both a and b

D none of these

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Q 73 Both radial and bilateral symmetry is found in which of the following phylum?

A Protozoa

B Porifera

C Echinodermata

D all of these

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Q 74

Which of these processes is the means by which a bacterium can directly uptake and incorporate foreign DNA from the environment into its genome?

A transduction

B transformation

C binary fission

D conjugation

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Q 75 Which is the largest cell in the human body?

A macrophage

B ovum

C granule cell

D none of these

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Q 76 Hemoglobin can carry:

A 1 molecule of oxygen

B 2 molecules of oxygen

C 3 molecules of oxygen

D 4 molecules of oxygen

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Q 77 Phosphatidylserine residues in the plasma membrane are located at?

A The outer leaflet of the plasma membrane

B Inner leaflet of the plasma membrane

C Evenly distributed in the inner and outer leaflet

D none of these

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Q 78

A chemical substance which can react (in place of substrate) with the enzyme but is not transformed into product/s and thus blocks the active site temporarily or permanently is called?

A coenzyme

B blocker

C inhibitor

D cofactor

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Q 79 The size of viruses is usually measured in?

A centimeters

B micrometers

C nanometers

D millimeters

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Q 80 Mammals became dominant in which of the following historical eras?

A Proterozoic era

B Mesozoic era

C Paleozoic era

D Cenozoic era

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Q 81 Respiration involves the

A Chemical process

B Biochemical process

C Mechanical process

D Both B and C

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Q 82 Which is not a necessary condition for the Hardy-Weinberg equation to be true?

A No natural selection

B No net migration of individuals into or out of the population

C random mating

D small population

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Q 83 in the first reaction of catabolism___ free the _____

A fatty acids, polysaccharides

B protein , amino acids

C lipids, glucose

D none of these

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Q 84 Where in the female reproductive system thousands of eggs are found?

A ovaries

B vagina

C fallopian tube

D uterus

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Q 85 What type of viruses are the paramyxoviruses?

A DNA enveloped virus

B RNA enveloped virus

C dna virus

D rna naked virus

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Q 86 Gene for blue opsin is present on which chromosome?

A 6

B 7

C 8

D 11

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Q 87 Inhibitors which block the enzyme by forming weak bond are called?

A Competitive inhibitors

B Non-competitive inhibitors

C Irreversible inhibitors

D both a and b

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Q 88 Chlorophyll b is found in which organisms?

A Green plants

B green algae

C Animals

D both a and b

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Q 89 How much of the body heat is produced by muscle tissue?

A 15%

B 30%

C 55%

D 85%

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Q 90 SIV is the abbreviation of

A simian immunodeficiency virus

B silurian immunodeficiency virus

C siberian immunodeficiency virus

D both a and c

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Q 91 Which of these is not a reflex action?

A Secretion of sweat

B salivation

C Flexion due to needle prick

D blinking of eyes due to strong light

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Q 92 When a dye is injected into a plant cell, it will enter the adjacent cell via?

A tight junction

B microtubule

C desmosomes

D plasmodesmata

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Q 93 A three dimensional cavity bearing a specific charge by which the enzyme reacts with its substrate is called?

A active site

B binding site

C catalytic site

D allosteric site

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Q 94 People with chronic hepatitis are at risk of?

A kidney damage

B liver damage

C heart damage

D lung damage

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Q 95 What does NADPH2 provide during photosynthesis?

A energized electron

B energy

C uncharged electron

D all of these

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Q 96 Which of the following would best determine the fitness of an organism?

A The number of offspring produced by the organism.

B How much food the organism consumes in its lifetime.

C How large the organism grows.

D The number of offspring produced by the organism's own offspring.

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Q 97 Which of the following was discovered by J.Seiler in 1914 in mouth?

A XO-XX

B XY-XX

C ZZ-ZW

D none of these

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Q 98 The largest part of forebrain which controls the intelligence, emotions and skeletal muscles is classified as?

A hypothalamus

B thalamus

C cerebellum

D cerebrum

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Q 99 Distribution of intrinsic proteins in the plasma membrane is?

A random

B symmetrical

C asymmetrical

D none of these

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Q 100 Which of the following is found beneath the prostate gland?

A vas deferens

B seminal vesicle

C urethra

D cowper's gland

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Q 101 How many actin filaments surround each myosin filament?

A 2

B 4

C 6

D 8

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Q 102 Lungs are spongy because of the presence of:

A alveoli

B trachea

C diaphragm

D bronchi

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Q 103 Which one of the following is not a feature of the nervous system of Planaria?

A Nuerons are differentiated into sensory, motor and associative neurons.

B Nerves are present.

C No specialized sensory organs are present.

D All of the above.

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Q 104 Enzymes binds with chemical reactant which is known as?

A product

B reactant

C substrate

D all of these

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Q 105 The pores through which water enters the sponge body are called:

A Osculi

B Ostia

C Opercula

D None of the above

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Q 106

The furan ring is an important structural component of biological molecules. How many carbon atoms are required to form ribofuranose?

A 3

B 5

C 6

D 2

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Q 107 Archaebacteria can survive at which of the following temperature? (Celcius)

A 300

B 150

C 120

D 200

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Q 108 Which brain part is responsible for our basic and primitive emotions?

A Limbic system

B Thalamus

C hypothalamus

D cerebrum

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Q 109 These are properties of lipids_____

A Insoluble in water and soluble in fat solvent.

B High energy content

C Structural component of cell membrane

D All of these

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Q 110 The event happens in menstrual cycle when level of progesterone declines:

A Ovulation

B beginning of menses

C corpus luteum formation

D maturation of ovarian follicle

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Q 111 _____ is responsible for making ribosomal RNA (rRNA).

A Nucleus only

B Nuclleolus only

C Nucleus & nucleolus only

D None of the above

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Q 112 Each Kreb's cycle forms how many molecules of NADH?

A 3

B 2

C 4

D 1

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Q 113 The function of coelom is best characterized as?

A To increase the size of the animals

B To help in the functioning of the reproductive system

C To provide space for the development of organs and systems

D none of these

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Q 114 Which type of cell would be the most appropriate for the study of chloroplasts?

A conducting cell

B pericycle cell

C photosynthetic cell

D all of these

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Q 115 Which of the following is NOT found in both prokaryotes and eukaryotes?

A Ribosomes

B Cytoskeleton

C Nucleolus

D Double-stranded DNA

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Q 116 Which of the following is an example of syndesmosis?

A radio-ulnar joints

B tibiofibular joints

C Both A and B

D sutures

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Q 116 Which of the following is an example of syndesmosis?

A radio-ulnar joints

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C Both A and B

D sutures

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Q 117 Which of the following conditions is not required to be true for a population in Hardy-Weinberg equilibrium?

A Random mutations

B Large population

C No natural selection

D Random mating

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Q 120 Lymph capillaries join together to form larger lymph vessels, that gives rise to:

A Thoracic duct

B lymph duct

C thoracic lymph duct

D sperm duct

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Q 122 Primordial soup is a set of hypothetical conditions on ancient earth first proposed by?

A Dmitri Ivanovsky

B Dmitry Anuchin

C Nikolay Shatsky

D Alexander Oparin

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Q 123 Which of the following strategies of enzymatic inhibition is used by noncompetitive inhibitors?

A Bind to substrate so that it cannot bind to the active site

B Target the enzyme for destruction using a protease

C Bind to the active site and prevent substrate from binding

D Bind to an allosteric site to cause a conformational shift in the enzyme

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Q 124 Which of the following is a chemical link between catabolism and anabolism?

A AMP

B ADP

C ATP

D all of these

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Q 125 A motion with constant velocity can be represented on displacement-time graph by:...

A a horizontal line

B a curve line with decreasing gradient

C a straight line with constant gradient

D a curve line with increasing gradient

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Q 126 Magnetic flux is a

A scalar quantity

B vector quantity

C sometimes scalar sometimes vector

D none of these

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Q 127 Beta particle is actually a

A fast moving electron

B slow moving electron

C electron at rest

D none of these

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Q 132 What is the S.I. unit of radioactivity?

A Curie

B Rutherford

C Becquerel

D all of these

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Q 133 One vibration can be defined as:

A motion of the body from one extreme position to the other extreme position

B motion of the body from one extreme position to the same extreme position

C motion of the body from one extreme position to the mean position

D motion of the body from mean position and back to the mean position

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Q 134 A man standing in a bus and pushing the wall of the bus in direction of motion work done by the man is

A positive

B zero

C negative

D none of these

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Q 135 Wave nature of electron is similar to

A proton

B beta rays

C gamma rays

D all of these

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Q 136 Which of the following is equivalent to a temperature -50C?

A -223K

B 223 K

C -323 K

D 323 K

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Q 137 If heat given is 6 kcal and work done is 6 kJ, then internal energy is

A 19.1 kJ

B 25.2 kJ

C 25kJ

D zero

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Q 138 If radial distance is 2 m and linear acceleration is 2 m the angular acceleration becomes

A 4

B 1/4

C 6

D 1

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Q 139 Peak voltage in the output of full wave rectifier is 10V so dc component of output voltage is

A $10\sqrt{2}$

B $20/\sqrt{2}$

C $20/\pi$

D 20π

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Q 140 When electron strikes with Al plate which photon is emitted

A blue

B white

C purple

D none of these

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Q 141 A radioactive source has a half-life of 80 s. How long it will take to decay 7/8 of the source?

A 10 sec

B 70 sec

C 240 sec

D 640 sec

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Q 142 Which element is used to absorb gamma radiations

A Co

B Cl

C Ni

D P

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Q 143 What is the unit of frequency?

A 1/Hertz

B 1/ second^2

C Second

D hertz

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Q 144

A charged particle is moving in a cyclotron, what effect on the radius of path of this charged particle will occur when the frequency of the ratio frequency field is doubled?

A it will also doubled

B it will be halved

C it will increase four times

D remain unchanged

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Q 145

An armature coil consists of 30 turns of wire, each of area A = 0.05 m^2 and total resistance of 10 Ω. It rotates in a magnetic field of 0.15T at an angular speed of 84 radian per second. Determine the value of maximum induced emf produced in the coil.

A 1V

B 500V

C 63V

D 43V

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Q 146 If a horse pulls a cart, work done by horse is

A negative

B zero

C positive

D none of these

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Q 147

An electric fan rotating at 3 rev s-1 is switched off. It comes to rest in 18.0 s. Assuming deceleration to be uniform. How many revolutions did it turn before coming to rest?

A 30 rev

B 27 rev

C 40 rev

D 10 rev

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Q 148 The energy of electron in nth orbit of Hydrogen atom is

A −0.0136 ev

B −1.136 ev

C 0.136 ev

D None of these

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Q 149 Which of the following vector is perpendicular to the vector $A = 2i + 3j + 4k$

A $i + j + k$

B $4i + 3j - 2k$

C $i - 3j + k$

D $i + 2j - 2k$

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Q 150

A 100 turn coil of area 0.1 m^2 rotates at half a revolution per second. It is placed in a uniform magnetic field of 0.01 T perpendicular to the axis of rotation of the coil. Calculate the maximum voltage generated in the coil?

A 256.33 V

B 89.12V

C 0.314V

D 3.1455 V

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Q 151

If a projectile is launched with 3m/s velocity at 60 degree angle then at highest point its horizontal velocity is

A 3 m/s

B 2m/s

C 1.5 m/s

D 1.8 m/s

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Q 152

If displacements due to two individual waves are y1 and y2. Then the resultant displacement, y, of the particle of the medium is:

A $y = y1 * y2$

B $y = y1 / y2$

C $y = y1 - y2$

D $y = y1 + y2$

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Q 153 Which of the following is not an assumption of the kinetic model of an ideal gas?

A collisions between molecules and walls of container are elastic

B the duration of collision between molecules is very short

C all particles of gas has same speed

D all particles of gas have same mass

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Q 154 The units of electric intensity are:...

A volt / meter or newton / coulomb

B volt / meter or meter / coulomb

C volt / coulomb or newton / coulomb

D joule / meter or newton / coulomb

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Q 155

A neon flashlight cell with an emf of 1.5V gives a current of 15A when connected directly to an ammeter of resistance 0.04Ω. The internal resistance of the cell is

A 0.0004Ω

B 0.06Ω

C 0.10Ω

D 0.13Ω

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Q 156 Calculate the frequency of photon associated with 500 nm wavelength

A 5 x 10^(14) Hz

B 6 x 10^(14) Hz

C 7 x 10^(14) Hz

D 9 x 10^(14) Hz

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Q 157 Maximum efficiency of half wave rectifier is

A 80.6 %

B 40.60%

C 70%

D 50%

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Q 158 Solar spectra is a type of

A continuous

B discrete

C both a) and b)

D None of these

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Q 159 The number of electrons taken out from a body to produce 1 coulomb of charge will be

A 6.25 × 10^18

B 625 × 10^18

C 6.023 × 10^23

D None of these

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Q 160 To start a fusion reaction, energy required is

A small

B large

C infinite

D zero

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Q 161 Ripple factor is defined as

A Irms/Vrms

B Idc/Irms

C Irms/I dc

D Irms + I dc

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Q 162 The resistance and length of wire are

A inversely related

B directly related

C not related

D inversely proportional

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Q 163 An object moves 20 m in 5 sec. What is the gradient of the displacement-time graph?

A 25

B 15

C 4

D 1/4

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Q 164 Which of the following is not as example of adiabatic process?

A The rapid escape of air from a burst tyre

B The rapid expansion and compression of air through which a sound wave is passing

C Cloud formation in the atmosphere

D slow compression or expansion of gas

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Q 165 _____ is conserved in pair production

A charge

B momentum

C both a & B

D none of these

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Q 166 When a body moves vertically upward, the work done will be

A positive

B zero

C negative

D none of these

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Q 167 During an isothermal process which of the following is true?

A Temperature increases

B Temperature decreases

C dW= dQ

D None of them

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Q 168 Centripetal acceleration always acts _____ the center

A away

B towards

C normally

D tangentially

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Q 169

A thermally insulated rigid container contains an ideal gas. It is heated through a resistance coil of 100Ω by passing a current of 1 A for five minutes, then change in internal energy of the gas is

A 0kJ

B 10kJ

C 20 kJ

D 30 kJ

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Q 170 A 200 watt bulb operates in a 220V circuit. Find the current.

A 0.9 Amp

B 0.6 Amp

C 2 Amp

D 3 Amp

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Q 170 A 200 watt bulb operates in a 220V circuit. Find the current.

A 0.9 Amp

B 0.6 Amp

C 2 Amp

D 3 Amp

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Q 171 What voltage is required to store 7.2 x 10^5 C of charge on the plates of a 6.0 μF capacitor?

A 12 V

B 43.2 V

C 1.2 V

D 432 V

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Q 172 Absorbed dose D is defined as energy absorbed from ionization radiation per unit ___

A mass

B charge

C time

D area

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Q 173 Magnetic flux is zero

A when angle is 90

B angle is 0

C angle is 180

D none of these

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Q 174 Wavelength of a sound wave in air is 10 cm, what is the frequency of the sound wave?

A 33 Hz

B 330 Hz

C 3300 Hz

D 33000 Hz

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Q 175

In a double slit experiment, a monochromatic light was used. the wavelength of light was 500 nm. The distance between slits is 1.0 mm. What is the separation between fringes if they are observed at a distance of 3.0 m?

A 15 mm

B 15 cm

C 1.5 mm

D 1.5 cm

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Q 176 Electrical power is given by P=

A VI

B I^2 R

C V^2 / R

D all

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Q 177

A bullet of mass 10 g leaves a rifle at an initial velocity of 1000 m/s and strikes earth at the same level with a velocity of 500 m/s. the work in overcoming the resistance of air will be:

A 500J

B 5000J

C 3750J

D 475J

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Q 178 Power transformers have maximum efficiency at

A no load

B full load

C half load

D double load

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Q 179 If the temperature of Sun is doubled heat energy reached on earth become

A three times

B sixteen times

C four times

D same

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Q 180 SI unit of equivalent dose is

A gray

B radiation

C sievert

D rem

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Q 181 This book has won _____ Booker prize.

A a

B an

C the

D no article

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Q 182 When the dentist came in (A), my tooth was stopped aching (B)/ out of fear (C) that I might loose my tooth. (D)

A When the dentist came in

B my tooth was stopped aching

C out of fear

D that i might loose my tooth.

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Q 183 My watch is five minutes _____.

A behind

B before

C slow

D early

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Q 184 Some of the books on the table _____ to me.

A belong

B belonging

C belongs

D was belong

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Q 185 Don’t forget your _____. It’s very cold outside, you wouldn't want to catch a cold.

A gloves

B underwear

C umbrella

D scissors

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Q 186 Your friend _____ (wait) for you for over an hour.

A wait

B waiting

C waited

D waits

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Q 187 secular

A non-religious

B unpopular

C special

D notable

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Q 188 The two machines _____ considerably. One has an electric motor, the other runs on oil.

A different

B differentiate

C differ

D difference

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Q 189 would not

A would'nt

B wouldn't

C woul'dnt

D wouldnt'

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Q 191 My parents _____ near Lahore.

A living

B are living

C lives

D live

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Q 192 _____ You did it again.

A Hey!

B Wow!

C Bravo!

D None

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Q 193 coveted

A worn

B greatly desired or envied

C eager

D detested

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Q 194 The train leaves _____ 5 o'clock, hurry up!

A at

B in

C around

D under

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Q 195 The ebb and flow of the tides _____ explained by Newton.

A are

B was

C were

D is

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Q 196 _____ knows that Dallas is not the capital of Texas.

A Anyone

B Many persons

C Not everyone

D Somebody

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Q 197 luminary

A bright

B lightening

C famous

D dashing

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Q 198 He is a scientist (A)/ but out of (B)/ his three sons (C)/ neither have become scientists. (D)

A He is a scientist

B but out of

C his three sons

D neither have become scientists.

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Q 199 Choose the correct sentence.

A Mrs Sajjad: who was sitting behind the desk, gave me a big smile.

B Mrs Sajjad who was sitting behind the desk gave me a big smile.

C Mrs Sajjad, who was sitting behind the desk, gave me a big smile.

D Mrs Sajjad, who was sitting behind the desk gave me a big smile?

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Q 200 The lions _____ (do) tricks; they _____ (jump) through hoops.

A do, jumps

B did, jumping

C did, jumped

D doing, jumping

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Q 201

Statement A smoker has left smoking suddenly a. He will feel restlessness and anxiety. b. He will start gaining weight

A

Both of them follows

B

None of them follows

C

Only b follows

D

Only a follows

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Q 202

The hotel is two blocks east of the drugstore. The market is one block west of the hotel. The drugstore is west of the market. If the first two statements are true, the third statement is

A Ture

B FALSE

C maybe

D unresolved

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Q 203 Which one does not belong to others?

A Apple

B Mango

C Cucumber

D Orange

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Q 204 Tea is to mug as the jam is to

A Plate

B Bread

C Spoon

D Water

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Q 206

Statement: All the schools in the area had to be kept closed for most part of the week. Many parents have withdrawn their children from the local schools.

A Statement I is the cause and statement II is its effect.

B Statement II is the cause and statement I is its effect

C Both the statements I and II are independent causes

D Both the statements I and II are effects of independent causes

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Q 207 An analogue clock always has

A Alarm

B Sound

C Needles

D Numbers

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Q 208 What should come next to Confound, Illiterate, Bewilder, ?

A Kind

B Unlearned

C Normal

D Disable

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Q 210

Directions : In each of the following questions a statement is given, followed by two conclusions. Give answer : Statement : Without reforming the entire administrative system, we cannot eradicate corruption and prejudice from the society. Assumptions : I. The existence of corruption and prejudice is good. II. There is enough flexibility to change the administrative system.

A Only assumption I is implicit

B Only assumption II is implicit

C Either I or II is implicit

D Both A and B

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Q 209

Statement Should coal engines be replaced by electric engines in trains? Arguments (I) Yes. Coal engines cause a lot of pollution. (II) Yes. Electric engines are good on performance, easy to operate, and low on maintenance. (III) No. Pakistan does not produce enough electricity to fulfill its domestic needs also.

A All are strong

B Only I and II are strong

C Only II and III are strong

D Only I and III are strong

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Q 205

Statement The Management of School M has decided to give free breakfast from next academic year to all the students in its primary section through its canteen even though they will not get any government grant. Courses of Action (I) The school will have to admit many poor students who will seek admission for the next academic year. (II) The canteen facilities and utensils have to be checked and new purchases to be made to equip it properly. (III) Funds will have to be raised to support the scheme for years to come.

A Only II and III follows

B Only III and I follow

C Only I and II follow

D Only I follows

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Q 131 The particle that possesses half integral spin has

A pion

B proton

C k-meson

D photon

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Q 130 Radar system is an application of:...

A Doppler's effect

B mechanical effect

C electric effect

D magnetic effect

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Q 129 Aluminum is:...

A an excellent conductor

B a semiconductor

C an insulator

D a photoconductor

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Q 128 The principle of a direct current generator is based on

A Coulomb's Law

B Ampere's Law

C Faraday's Law

D Lenz's Law

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Q 121 The part of spinal cord where interneurons present is called:

A White matter

B Gray matter

C lumbar enlargement

D cervical enlargement

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Q 119 Radial symmetry is found in which of the following organisms?

A Coelenterata and Platyhelminthes

B Arthropoda and Mollusca

C Porifera and Coelenterata

D Coelenterata and Echinodermata

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Q 118 Which factors may help determine the antigenicity of a virus?

A capsomeres

B size of virus

C whole capsid

D internal proteins

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Q 91 Which of these is not a reflex action?

A Secretion of sweat

B salivation

C Flexion due to needle prick

D blinking of eyes due to strong light

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Q 68 The thalamus and the hypothalamus are located in which region of the brain?

A brain stem

B cerebrum

C cerebellum

D Diencephalon

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Q 54 On industrial scale which catalyst is used for the preparation of methanol?

A $K_2Cr_2O_7$

B $PdCl_2$

C FeO,Mo_2O_3

D $CuCl_2$

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Q 53 Hydroxide Ions are combine to give

A Alcohols

B Aldehydes

C Oxygen

D Hydrogen

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Q 21 Which of the following is not aromatic?

A Anthracene

B Naphthalene

C Phenol

D None of these

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Q1 Aldehydes can be oxidized by_____?

A $K_2Cr_2O_7$

B HNO_3

C Tollen's reagent

D All of these

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Q2 Which one of the following is an electrophile?

A Br^+

B CH_4

C NH_3

D H_2O

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Q3 Which of the following is an example of Tricarboxylic acids ?

A Maleic acid

B Citric acid

C Butyric acid

D None of these

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Q4 The size of viruses is usually measured in?

A centimeters

B micrometers

C nanometers

D millimeters

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Q5 In a galvanic cell ,Zinc Sulphate left beaker acquires a

A A negative charge

B A net positive charge

C Neutral

D None of these

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Q6 Shifting the position of equilibrium can be used to Increase

A Temperature

B pressure

C yield of reaction

D All of these

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Q7 Gasoline produced by the Fractional distillation is_____?

A 80%

B 5%

C 65%

D 20%

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Q8 The strength of H-bond is less than covalent bond

A 1 times

B 2 times

C 3 times

D 5 times

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Q9 How carboxylic acid group attached to benzene ring affect its reactivity?

A Make it reactive

B Makes ortho position of benzene more reactive than others

C Makes meta position of benzene more reactive than others

D Makes para position of benzene more reactive than others

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Q10 In Haber's process volume percentage of ammonia in equilibrium mixture is

A 30%

B 32%

C 35%

D 33%

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Q11 If two amino acids are joined by peptide bond than the molecule is called as_____?

A Polypeptide

B Peptide

C Dipeptide

D Tripeptide

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Q12 Isotopes are the atoms of same element having different number of _____

A electron

B proton

C positron

D neutron only

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Q13 In the rate equation R=k[A]^a [B]^b, order of reaction is

A a x b

B a-b

C b-a

D a+b

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Q14 A substance formed by reduction of phenol with Zn is

A picric acid

B benzene

C cresol

D carbolic acid

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Q15 Charles's law is not being obeyed when temperature is measured on Celsius scale. Thatâ€™s why new scale called_____ has been developed

A zero Fahrenheit

B zero Kelvin

C absolute Fahrenheit

D all of these

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Q16 Avogadro's hypothesis is applicable to _____only.

A all gases

B inert gases

C ideal gases

D light gases

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Q17 Which is un1 for phenols

A a colourless crystalline solid

B more reactive to electrophilic attack

C form pink solution at room temperature

D dissolves readily in acids

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Q18 When we dissolve a compound of transition element in a solution of salt then it will form

A Simples ions

B Strong anions

C Double salts

D Complex ions

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Q19 symmetry is repetition of ___ when a crystal rotates at 36 along its axis

A faces

B edges

C angles

D all of these

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Q20 Which one of the following is a strong acid ?

A HF

B HI

C HBr

D HI

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Q21 1,4-dimethyl benzene is called as_____?

A Ortho xylene

B Para-xylene

C Para-methyl toluene

D Meta-methyl toluene

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Q22 which one the characteristic of Ionic solids ?

A high vapor pressure

B good conductivity

C low melting point

D solubility in polar solvents

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Q23 Polyvinyl acetate is polymer of_____?

A Acetyl acetate

B Vinyl acetate

C Chloro acetate

D Benzyl acetate

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Q24 this gas cannot be liquefied by Linde's method

A methane

B carbon dioxide

C hydrogen

D helium

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Q25 Work done by the system is always

A Positive

B Zero

C Negative

D Equals to Unity

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Q26 The number of molecules taking part in rate determining step of a reaction is called as_____?

A Order of reaction

B Molecularity

C Intermediate

D Substrates

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Q27 One of them is not an alkali metal, Mark it

A Francium

B Caesium

C Rubidium

D Radium

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Q28 Effect of Change in Pressure for a reaction with different number of moles at reactant and product side are

A Irreversible Reactions

B Reversible reactions

C Reversible gaseous reactions

D All of these

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Q29 When atoms share their electrons to complete its valence shell and attains nearest noble gas configuration, the bond formed is

A Ionic bond

B covalent bond

C metallic bond

D dative bond

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Q30 Enzymes speed up the reaction upto:

A 10^{10}

B 20^{10}

C 10^{20}

D 15^{10}

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Q31 which one of them belongs to tetragonal system

A Bi

B Sn

C Fe

D Zn

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Q32 In exothermic reactions forward reactions need

A More Energy

B No energy

C Less Energy

D Catalyst

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Q33 Glucose($C_6H_{12}O_6$) is the most important nutrient in a cell for generating chemical potential energy, what is the mass percent of carbon in 1.5g of sample

A 33%

B 40%

C 53.3%

D 6.67%

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Q34 Hydroxide Ions are combine to give

A Alcohols

B Aldehydes

C Oxygen

D Hydrogen

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Q35 On industrial scale which catalyst is used for the preparation of methanol?

A $K_2Cr_2O_7$

B PdCl2

C FeO,Mo2O3

D CuCl2

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Q36 The least value of Van der Waals constant is of

A H_2

B N_2

C CO_2

D Cl

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Q37 d-block elements are called

A coinage metals

B noble metals

C transition metals

D alkali metals

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Q38 In bacteria name the colour of light which is responsible for photosynthesis?

A Ultra-Violet

B Blue

C Red

D None of the above

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Q39 Cellular respiration is essentially what type of process?

A Oxidation

B Reduction

C Redox

D None of the above

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Q40 The affect of genetic drift increases as the population size?

A increases

B decreased

C remains same

D none of these

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Q42 Which of the following is the most complex sugar?

A Monosaccharides

B Oligosaccharides

C Polysaccharides

D carbohydrates

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Q43 Cartilage is a form of:

A Cardiac tissue

B connective tissue

C epithelial tissue

D nervous tissue

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Q44 What does the size of viruses' range between?

A 100 mm to 150 mm

B 20 nm to 250 nm

C 300 nm to 3000 nm

D 3 nm to 30 nm

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Q45 Who opposed the idea the cell is an empty space bounded by thick wall?

A Lorenz oken

B Schwann

C Robert brown

D Rudolph Virchow

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Q46 What is the strengthening material of the prokaryotic cell wall?

A cellulose

B chitin

C silica waxes and lignin

D peptidoglycan or murein

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Q47 The process of determining the locus for particular biological traits includes?

A replication

B recombination

C gene mapping

D none of these

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Q48 Pseudocoelom develops from which of the following?

A Blastopore

B Plastoquinone

C Splitting of mesoderm

D Blastocoel

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Q49 The thalamus and the hypothalamus are located in which region of the brain?

A brain stem

B cerebrum

C cerebellum

D Diencephalon

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Q50 How many postulates does the germ theory of disease have?

A 2

B 3

C 4

D 5

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Q51 Larynx is also called:

A glottis

B voice box

C epiglottis

D both B and C

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Q52 The complete, mature and infectious particle is known as?

A Capsid

B Virion

C Bacteriophage

D Nucleus

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Q53 _____cathode is used in discharge tube experiment for discovery of protons

A flat

B round

C perforated

D oval

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Q54 Which of the following forces are strongest?

A Debye forces

B Dipole Dipole forces

C Induced dipole forces

D Metallic bond

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Q55 Which one of the following is not an example of state function?

A Temperature (T)

B Volume (V)

C Enthalpy (E)

D Heat (q)

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Q56 In Which of the following reaction rate of reaction is not affected by increasing concentration of nucleophile ?

A SN_2

B E_2

C SN_1

D None of these

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Q57 Inhibitors which block the enzyme by forming weak bond are called?

A Competitive inhibitors

B Non-competitive inhibitors

C Irreversible inhibitors

D both a and b

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Q58 During an isothermal process which of the following is true?

A Temperature increases

B Temperature decreases

C dW= dQ

D None of them

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Q59

Statement Should coal engines be replaced by electric engines in trains? Arguments (I) Yes. Coal engines cause a lot of pollution. (II) Yes. Electric engines are good on performance, easy to operate, and low on maintenance. (III) No. Pakistan does not produce enough electricity to fulfill its domestic needs also.

A All are strong

B Only I and II are strong

C Only II and III are strong

D Only I and III are strong

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Q60 Both radial and bilateral symmetry is found in which of the following phylum?

A Protozoa

B Porifera

C Echinodermata

D all of these

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Q61

Which of these processes is the means by which a bacterium can directly uptake and incorporate foreign DNA from the environment into its genome?

A transduction

B transformation

C binary fission

D conjugation

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Q62 Which is the largest cell in the human body?

A macrophage

B ovum

C granule cell

D none of these

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Q63 Hemoglobin can carry:

A 1 molecule of oxygen

B 2 molecules of oxygen

C 3 molecules of oxygen

D 4 molecules of oxygen

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Q63 Hemoglobin can carry:

A 1 molecule of oxygen

B 2 molecules of oxygen

C 3 molecules of oxygen

D 4 molecules of oxygen

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Q64 Phosphatidylserine residues in the plasma membrane are located at?

A The outer leaflet of the plasma membrane

B Inner leaflet of the plasma membrane

C Evenly distributed in the inner and outer leaflet

D none of these

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Q65 A chemical substance which can react (in place of substrate) with the enzyme but is not transformed into product/s and thus blocks the active site temporarily or permanently is called?

A coenzyme

B blocker

C inhibitor

D cofactor

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Q66 Mammals became dominant in which of the following historical eras?

A Proterozoic era

B Mesozoic era

C Paleozoic era

D Cenozoic era

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Q67 Respiration involves the

A Chemical process

B Biochemical process

C Mechanical process

D Both B and C

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Q68 Which is not a necessary condition for the Hardy-Weinberg equation to be true?

A No natural selection

B No net migration of individuals into or out of the population

C random mating

D small population

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Q69 in the first reaction of catabolism___ free the _____

A fatty acids, polysaccharides

B protein , amino acids

C lipids, glucose

D none of these

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Q70 Where in the female reproductive system thousands of eggs are found?

A ovaries

B vagina

C fallopian tube

D uterus

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Q71 What type of viruses are the paramyxoviruses?

A DNA enveloped virus

B RNA enveloped virus

C dna virus

D rna naked virus

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Q72 Gene for blue opsin is present on which chromosome?

A 6

B 7

C 8

D 11

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Q73 Chlorophyll b is found in which organisms?

A Green plants

B green algae

C Animals

D both a and b

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Q74 How much of the body heat is produced by muscle tissue?

A 15%

B 30%

C 55%

D 85%

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Q75 SIV is the abbreviation of

A simian immunodeficiency virus

B silurian immunodeficiency virus

C siberian immunodeficiency virus

D both a and c

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Q76 Which of these is not a reflex action?

A Secretion of sweat

B salivation

C Flexion due to needle prick

D blinking of eyes due to strong light

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Q77 When a dye is injected into a plant cell, it will enter the adjacent cell via?

A tight junction

B microtubule

C desmosomes

D plasmodesmata

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Q78 A three dimensional cavity bearing a specific charge by which the enzyme reacts with its substrate is called?

A active site

B binding site

C catalytic site

D allosteric site

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Q79 People with chronic hepatitis are at risk of?

A kidney damage

B liver damage

C heart damage

D lung damage

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Q80 Which of the following would best determine the fitness of an organism?

A The number of offspring produced by the organism.

B How much food the organism consumes in its lifetime.

C How large the organism grows.

D The number of offspring produced by the organism's own offspring.

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Q81 Which of the following was discovered by J.Seiler in 1914 in mouth?

A XO-XX

B XY-XX

C *ZZ-ZW*

D none of these

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Q82 The largest part of forebrain which controls the intelligence, emotions and skeletal muscles is classified as?

A hypothalamus

B thalamus

C cerebellum

D cerebrum

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Q83 Distribution of intrinsic proteins in the plasma membrane is?

A random

B symmetrical

C asymmetrical

D none of these

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Q84 Which of the following is found beneath the prostate gland?

A vas deferens

B seminal vesicle

C urethra

D cowper's gland

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Q85 How many actin filaments surround each myosin filament?

A 2

B 4

C 6

D 8

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Q86 Lungs are spongy because of the presence of:

A alveoli

B trachea

C diaphragm

D bronchi

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Q87 Which one of the following is not a feature of the nervous system of Planaria?

A Nuerons are differentiated into sensory, motor and associative neurons.

B Nerves are present.

C No specialized sensory organs are present.

D All of the above.

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Q88 The pores through which water enters the sponge body are called:

A Osculi

B Ostia

C Opercula

D None of the above

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Q89 The furan ring is an important structural component of biological molecules. How many carbon atoms are required to form ribofuranose?

A 3

B 5

C 6

D 2

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Q90 Archaebacteria can survive at which of the following temperature? (Celcius)

A 300

B 150

C 120

D 200

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Q91 Which brain part is responsible for our basic and primitive emotions?

A Limbic system

B Thalamus

C hypothalamus

D cerebrum

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Q92 These are properties of lipids_____

A Insoluble in water and soluble in fat solvent.

B High energy content

C Structural component of cell membrane

D All of these

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Q93 The event happens in menstrual cycle when level of progesterone declines:

A Ovulation

B beginning of menses

C corpus luteum formation

D maturation of ovarian follicle

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Q94 _____ is responsible for making ribosomal RNA (rRNA).

A Nucleus only

B Nuclleolus only

C Nucleus & nucleolus only

D None of the above

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Q95 The function of coelom is best characterized as?

A To increase the size of the animals

B To help in the functioning of the reproductive system

C To provide space for the development of organs and systems

D none of these

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Q96 Which type of cell would be the most appropriate for the study of chloroplasts?

A conducting cell

B pericycle cell

C photosynthetic cell

D all of these

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Q97 Which of the following is NOT found in both prokaryotes and eukaryotes?

A Ribosomes

B Cytoskeleton

C Nucleolus

D Double-stranded DNA

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Q98 Which of the following is an example of syndesmosis?

A radio-ulnar joints

B tibiofibular joints

C Both A and B

D sutures

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Q99 Which of the following conditions is not required to be true for a population in Hardy-Weinberg equilibrium?

A Random mutations

B Large population

C No natural selection

D Random mating

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Q100 Which factors may help determine the antigenicity of a virus?

A capsomeres

B size of virus

C whole capsid

D internal proteins

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Q100 Which factors may help determine the antigenicity of a virus?

A capsomeres

B size of virus

C whole capsid

D internal proteins

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Q101 Radial symmetry is found in which of the following organisms?

A Coelenterata and Platyhelminthes

B Arthropoda and Mollusca

C Porifera and Coelenterata

D Coelenterata and Echinodermata

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Q102 The part of spinal cord where interneurons present is called:

A White matter

B Gray matter

C lumbar enlargement

D cervical enlargement

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Q103 Primordial soup is a set of hypothetical conditions on ancient earth first proposed by?

A Dmitri Ivanovsky

B Dmitry Anuchin

C Nikolay Shatsky

D Alexander Oparin

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Q104 Which of the following strategies of enzymatic inhibition is used by noncompetitive inhibitors?

A Bind to substrate so that it cannot bind to the active site

B Target the enzyme for destruction using a protease

C Bind to the active site and prevent substrate from binding

D Bind to an allosteric site to cause a conformational shift in the enzyme

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Q105 Which of the following is a chemical link between catabolism and anabolism?

A AMP

B ADP

C ATP

D all of these

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Q106 A motion with constant velocity can be represented on displacement-time graph by:...

A a horizontal line

B a curve line with decreasing gradient

C a straight line with constant gradient

D a curve line with increasing gradient

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Q107 Magnetic flux is a

A scalar quantity

B vector quantity

C sometimes scalar sometimes vector

D none of these

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Q108 Beta particle is actually a

A fast moving electron

B slow moving electron

C electron at rest

D none of these

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Q109 The principle of a direct current generator is based on

A Coulomb's Law

B Ampere's Law

C Faraday's Law

D Lenz's Law

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Q110 Radar system is an application of:...

A Doppler's effect

B mechanical effect

C electric effect

D magnetic effect

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Q111 The particle that possesses half integral spin has

A pion

B proton

C k-meson

D photon

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Q112 What is the S.I. unit of radioactivity?

A Curie

B Rutherford

C Becquerel

D all of these

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Q113 One vibration can be defined as:

A motion of the body from one extreme position to the other extreme position

B motion of the body from one extreme position to the same extreme position

C motion of the body from one extreme position to the mean position

D motion of the body from mean position and back to the mean position

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Q114 A man standing in a bus and pushing the wall of the bus in direction of motion work done by the man is

A positive

B zero

C negative

D none of these

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Q115 Wave nature of electron is similar to

A proton

B beta rays

C gamma rays

D all of these

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Q116 Which of the following is equivalent to a temperature -50C?

A -223K

B 223 K

C -323 K

D 323 K

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Q117 If radial distance is 2 m and linear acceleration is 2 m the angular acceleration becomes

A 4

B 1/4

C 6

D 1

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Q118 Peak voltage in the output of full wave rectifier is 10V so dc component of output voltage is

A $10\sqrt{2}$

B $20/\sqrt{2}$

C $20/\pi$

D 20π

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Q119 When electron strikes with Al plate which photon is emitted

A blue

B white

C purple

D none of these

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Q120 A radioactive source has a half-life of 80 s. How long it will take to decay 7/8 of the source?

A 10 sec

B 70 sec

C 240 sec

D 640 sec

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Q121 Which element is used to absorb gamma radiations

A Co

B Cl

C Ni

D P

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Q122 What is the unit of frequency?

A 1/Hertz

B 1/ second^2

C Second

D hertz

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Q123 A charged particle is moving in a cyclotron, what effect on the radius of path of this charged particle will occur when the frequency of the ratio frequency field is doubled?

A it will also doubled

B it will be halved

C it will increase four times

D remain unchanged

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Q124 If a horse pulls a cart, work done by horse is

A negative

B zero

C positive

D none of these

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Q125 An electric fan rotating at 3 rev s-1 is switched off. It comes to rest in 18.0 s. Assuming deceleration to be uniform. How many revolutions did it turn before coming to rest?

A 30 rev

B 27 rev

C 40 rev

D 10 rev

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Q126 The energy of electron in nth orbit of Hydrogen atom is

A –0.0136 ev

B –1.136 ev

C 0.136 ev

D None of these

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Q127 Which of the following vector is perpendicular to the vector $A = 2i + 3j + 4k$

A $i + j + k$

B $4i + 3j - 2k$

C $i - 3j + k$

D $i + 2j - 2k$

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Q128 A 100 turn coil of area 0.1 m^2 rotates at half a revolution per second. It is placed in a uniform magnetic field of 0.01 T perpendicular to the axis of rotation of the coil. Calculate the maximum voltage generated in the coil?

A 256.33 V

B 89.12V

C 0.314V

D 3.1455 V

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Q129 If a projectile is launched with 3m/s velocity at 60 degree angle then at highest point its horizontal velocity is

A 3 m/s

B 2m/s

C 1.5 m/s

D 1.8 m/s

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Q130 If displacements due to two individual waves are y1 and y2. Then the resultant displacement, y, of the particle of the medium is:

A $y = y1 * y2$

B $y = y1 / y2$

C $y = y1 - y2$

D $y = y1 + y2$

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Q131 Which of the following is not an assumption of the kinetic model of an ideal gas?

A collisions between molecules and walls of container are elastic

B the duration of collision between molecules is very short

C all particles of gas has same speed

D all particles of gas have same mass

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Q132 A neon flashlight cell with an emf of 1.5V gives a current of 15A when connected directly to an ammeter of resistance 0.04Ω. The internal resistance of the cell is

A 0.0004Ω

B 0.06Ω

C 0.10Ω

D 0.13Ω

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Q133 Calculate the frequency of photon associated with 500 nm wavelength

A 5 x 10^(14) Hz

B 6 x 10^(14) Hz

C 7 x 10^(14) Hz

D 9 x 10^(14) Hz

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Q134 Maximum efficiency of half wave rectifier is

A 80.6 %

B 40.60%

C 70%

D 50%

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Q135 Solar spectra is a type of

A continuous

B discrete

C both a) and b)

D None of these

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Q136 The number of electrons taken out from a body to produce 1 coulomb of charge will be

A 6.25 × 10^18

B 625 × 10^18

C 6.023 × 10^23

D None of these

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Q137 Ripple factor is defined as

A Irms/Vrms

B Idc/Irms

C Irms/I dc

D Irms + I dc

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Q138 The resistance and length of wire are

A inversely related

B directly related

C not related

D inversely proportional

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Q139 An object moves 20 m in 5 sec. What is the gradient of the displacement-time graph?

A 25

B 15

C 4

D 1/4

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Q140 Which of the following is not as example of adiabatic process?

A The rapid escape of air from a burst tyre

B The rapid expansion and compression of air through which a sound wave is passing

C Cloud formation in the atmosphere

D slow compression or expansion of gas

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Q141 _____ is conserved in pair production

A charge

B momentum

C both a & B

D none of these

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Q142 When a body moves vertically upward, the work done will be

A positive

B zero

C negative

D none of these

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Q143 Centripetal acceleration always acts _____ the center

A away

B towards

C normally

D tangentially

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Q144

A thermally insulated rigid container contains an ideal gas. It is heated through a resistance coil of 100Ω by passing a current of 1 A for five minutes, then change in internal energy of the gas is

A 0kJ

B 10kJ

C 20 kJ

D 30 kJ

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Q145 A 200 watt bulb operates in a 220V circuit. Find the current.

A 0.9 Amp

B 0.6 Amp

C 2 Amp

D 3 Amp

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Q146 What voltage is required to store 7.2 x 10^5 C of charge on the plates of a 6.0 µF capacitor?

A 12 V

B 43.2 V

C 1.2 V

D 432 V

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Q147 Absorbed dose D is defined as energy absorbed from ionization radiation per unit ___

A mass

B charge

C time

D area

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Q148 Magnetic flux is zero

A when angle is 90

B angle is 0

C angle is 180

D none of these

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Q149 Wavelength of a sound wave in air is 10 cm, what is the frequency of the sound wave?

A 33 Hz

B 330 Hz

C 3300 Hz

D 33000 Hz

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Q150 Electrical power is given by P=

A VI

B I^2 R

C V^2 / R

D all

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Q151 A bullet of mass 10 g leaves a rifle at an initial velocity of 1000 m/s and strikes earth at the same level with a velocity of 500 m/s. the work in overcoming the resistance of air will be:

A 500J

B 5000J

C 3750J

D 475J

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Q152 Power transformers have maximum efficiency at

A no load

B full load

C half load

D double load

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Q153 If the temperature of Sun is doubled heat energy reached on earth become

A three times

B sixteen times

C four times

D same

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Q154 SI unit of equivalent dose is

A gray

B radiation

C sievert

D rem

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Q155 This book has won _____ Booker prize.

A a

B an

C the

D no article

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Q156 When the dentist came in (A), my tooth was stopped aching (B)/ out of fear (C) that I might loose my tooth. (D)

A When the dentist came in

B my tooth was stopped aching

C out of fear

D that i might loose my tooth.

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Q157 My watch is five minutes _____.

A behind

B before

C slow

D early

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Q158 Don’t forget your _____. It’s very cold outside, you wouldn't want to catch a cold.

A gloves

B underwear

C umbrella

D scissors

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Q159 Your friend _____ (wait) for you for over an hour.

A wait

B waiting

C waited

D waits

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Q160 secular

A non-religious

B unpopular

C special

D notable

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Q161 The two machines _____ considerably. One has an electric motor, the other runs on oil.

A different

B differentiate

C differ

D difference

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Q162 would not

A would'nt

B wouldn't

C woul'dnt

D wouldnt'

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Q163 he is

A hes

B hes'

C he's

D heis

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Q164 My parents _____ near Lahore.

A living

B are living

C lives

D live

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Q165 coveted

A worn

B greatly desired or envied

C eager

D detested

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Q166 The train leaves _____ 5 o'clock, hurry up!

A at

B in

C around

D under

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Q167 The ebb and flow of the tides _____ explained by Newton.

A are

B was

C were

D is

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Q168 _____ knows that Dallas is not the capital of Texas.

A Anyone

B Many persons

C Not everyone

D Somebody

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Q169 luminary

A bright

B lightening

C famous

D dashing

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Q170 He is a scientist (A)/ but out of (B)/ his three sons (C)/ neither have become scientists. (D)

A He is a scientist

B but out of

C his three sons

D neither have become scientists.

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Q171 Choose the correct sentence.

A Mrs Sajjad: who was sitting behind the desk, gave me a big smile.

B Mrs Sajjad who was sitting behind the desk gave me a big smile.

C Mrs Sajjad, who was sitting behind the desk, gave me a big smile.

D Mrs Sajjad, who was sitting behind the desk gave me a big smile?

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Q172 Statement A smoker has left smoking suddenly a. He will feel restlessness and anxiety. b. He will start gaining weight

A Both of them follows

B None of them follows

C Only b follows

D Only a follows

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Q173 The hotel is two blocks east of the drugstore. The market is one block west of the hotel. The drugstore is west of the market. If the first two statements are true, the third statement is

A Ture

B FALSE

C maybe

D unresolved

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Q174 Which one does not belong to others?

A Apple

B Mango

C Cucumber

D Orange

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Q174 Which one does not belong to others?

A Apple

B Mango

C Cucumber

D Orange

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Q175 Tea is to mug as the jam is to

A Plate

B Bread

C Spoon

D Water

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Q176

Statement The Management of School M has decided to give free breakfast from next academic year to all the students in its primary section through its canteen even though they will not get any government grant. Courses of Action (I) The school will have to admit many poor students who will seek admission for the next academic year. (II) The canteen facilities and utensils have to be checked and new purchases to be made to equip it properly. (III) Funds will have to be raised to support the scheme for years to come.

A Only II and III follows

B Only III and I follow

C Only I and II follow

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Q178 An analogue clock always has

A Alarm

B Sound

C Needles

D Numbers

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Previous Question Next Question

Q179 What should come next to Confound, Illiterate, Bewilder, ?

A Kind

B Unlearned

C Normal

D Disable

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Q180

Directions : In each of the following questions a statement is given, followed by two conclusions. Give answer : Statement : Without reforming the entire administrative system, we cannot eradicate corruption and prejudice from the society. Assumptions : I. The existence of corruption and prejudice is good. II. There is enough flexibility to change the administrative system.

A Only assumption I is implicit

B Only assumption II is implicit

C Either I or II is implicit

D Both A and B

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Q181 Which alkali metal only combine with Nitrogen?

A Li

B Fr

C Cs

D K

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Q182 The negative ions having group of atoms is/are

A OH-

B CO_3^{2-}

C $Cr_2O_7^{2-}$

D all of these

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Q183 Benzophenone is also known as :

A Diphenyl ketone

B Ethyl Phenyl ketone

C Tri Phenyl ketone

D None of these

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Q184 In SN_2 reaction, rate of reaction is directly proportional to concentration of_____?

A Substrate only

B Nucleophile

C Substrate and nucleophile

D All of these

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Q185 Which of the following is not aromatic?

A Anthracene

B Naphthalene

C Phenol

D None of these

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Q186 Enzymes binds with chemical reactant which is known as?

A product

B reactant

C substrate

D all of these

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Q187 In the addition of sodium bisulfite to carbonyl system, which of the following is nucleophile?

A Sulphide ion

B Sulfite ion

C Hydride ion

D Sodium ion

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Q188 The reaction in which benzene is reacted with alkyl or acyl halide in the presence of $AlCl_3$ is called as_____?

A Aldol condensation

B Wolf kishner reaction

C Wittig reaction

D Friedel and craft reaction

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Q189 Which of the following process is an example of exothermic reaction?

A Evaporation

B Fusion

C Sublimation

D Respiration

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Q190 In Powdered form the angles and faces in a crystal are

A Ruptured

B Changed

C Unchanged

D None of these

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Q191 Geometrical isomerism arises due to_____?

A Rotation around a double bond

B Restriction of rotation around a single bond

C Restriction of rotation around a double bond

D Due to double bond

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Q192 Reagent like $K_2Cr_2O_7$ and H_2SO_4 lead to_____?

A Reduction

B Hydrolysis

C Dehydration

D Oxidation

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Q193 The units of electric intensity are:...

A volt / meter or newton / coulomb

B volt / meter or meter / coulomb

C volt / coulomb or newton / coulomb

D joule / meter or newton / coulomb

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Q194 Joule-Thomson effect is used to _the temperature of a gas to liquefy it

A raise

B higher

C equalize

D lower

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Q195 What is critical in photoperiodism?

A Length of light period

B Length of dark period

C both a and b

D none of these

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Q196 Some of the books on the table _____ to me.

A belong

B belonging

C belongs

D was belong

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Q197 What does NADPH2 provide during photosynthesis?

A energized electron

B energy

C uncharged electron

D all of these

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Q198 Alkyl halide react with Sodium lead alloy, which of the following is correct formula of tetramethyl lead?

A $(C_2H_5)_4Pb$

B $(CH_3)_4Pb$

C $(CH_4)_4Pb$

D $(CH_3)_4Pd$

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Q199 If the concentration of reactants in a chemical reaction is Unity the rate is called

A Unit rate constant

B specific rate constant

C Relative rate constant

D Average rate constant

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Q200 in solid iodine, I-I bond distance is

A 77.1 pm

B 271.5 pm

C 11 pm

D 166.7 pm

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Q201 Each Kreb's cycle forms how many molecules of NADH?

A 3

B 2

C 4

D 1

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Q202 Lymph capillaries join together to form larger lymph vessels, that gives rise to:

A Thoracic duct

B lymph duct

C thoracic lymph duct

D sperm duct

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Q203 If heat given is 6 kcal and work done is 6 kJ, then internal energy is

A 19.1 kJ

B 25.2 kJ

C 25kJ

D zero

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Q204 An armature coil consists of 30 turns of wire, each of area A = 0.05 m^2 and total resistance of 10 Ω. It rotates in a magnetic field of 0.15T at an angular speed of 84 radian per second. Determine the value of maximum induced emf produced in the coil.

A 1V

B 500V

C 63V

D 43V

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Q205 In a double slit experiment, a monochromatic light was used. the wavelength of light was 500 nm. The distance between slits is 1.0 mm. What is the separation between fringes if they are observed at a distance of 3.0 m?

A 15 mm

B 15 cm

C 1.5 mm

D 1.5 cm

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Q206 The lions _____ (do) tricks; they _____ (jump) through hoops.

A do, jumps

B did, jumping

C did, jumped

D doing, jumping

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Q207 The biochemical process used in the synthesis of alcohol in the presence of yeast is called as_____?

A Respiration

B Photosynthesis

C Fermentation

D Aerobic respiration

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Q208 Aluminum is:...

A an excellent conductor

B a semiconductor

C an insulator

D a photoconductor

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Q209 To start a fusion reaction, energy required is

A small

B large

C infinite

D zero

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Q210 _____ You did it again.

A Hey!

B Wow!

C Bravo!

D None

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